



Lewis Research Center

# NGST

## EELV-Medium

### ● Performance

- Requirement: 3850 kg to GTO
- Estimated equivalent capabilities:
  - Escape ( $C3 = 0 \text{ km}^2/\text{sec}^2$ ): >2800 kg
  - 1 AU x 3 AU ( $C3 = 45 \text{ km}^2/\text{sec}^2$ ): >1000 kg
  - 1 AU x 5 AU ( $C3 = 77 \text{ km}^2/\text{sec}^2$ ): <300 kg

### ● Fairing/Payload Envelope

- Atlas equivalent fairing requirement

### ● Fairing Growth Plans

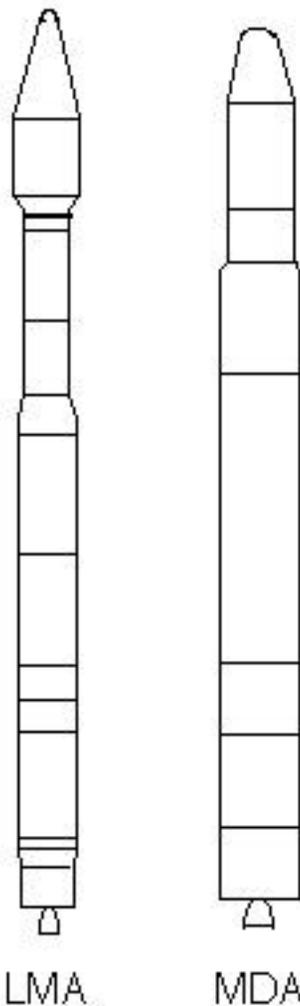
- Growth to 5 m class fairings may be considered

### ● Launch Availability

- CCAFS
- ILC: 2002

### ● Basic Launch Service Cost

- Cost to deliver entire EELV mission model is targeted for 50% of current cost



LMA

MDA

<http://www.mdc.com/version2/space/delta4.htm>

<http://www.lmco.com/Astro/products/advancedLaunch/home.html>

**Launch Services & Transportation Projects Office**